

What is claimed is:

1. A universal snap-fit spacer system, comprising:  
a fastener member, comprising:  
a body portion;  
a resilient portion; and  
5 a <sup>locking</sup>latching assembly, wherein said resilient portion biases said <sup>locking</sup>latching assembly into a first position;  
a spacer element, comprising:  
an interior bore;  
a plurality of recesses formed in said interior bore, wherein said <sup>locking</sup>latching  
10 assembly of said fastener member may be received in at least <sup>NAB</sup>a one of said plurality of recesses to prevent said <sup>NAB</sup>spacer insert from being withdrawn from said spacer element.
2. The system of Claim 1, wherein said <sup>locking</sup>latching assembly is in said first position when said <sup>locking</sup>latching assembly is received in <sup>a</sup>one of said plurality of recesses.
3. The system of Claim 1, wherein in said first position a distance across said <sup>locking</sup>latching assembly is equal to a first amount.

4. The system of Claim 1, wherein in a second position a distance across said <sup>locking</sup> latching assembly is equal to a second amount, and wherein said second amount is about equal to a diameter of said interior bore.

5. The system of Claim 1, wherein said <sup>locking</sup> latching assembly comprises:  
at least a first camming surface; and  
at least a first locking surface.

6. The system of Claim 5, wherein at least a first recess comprises:  
a tapered surface; and  
a latching surface.

7. The system of Claim 6, wherein a latching surface of a first of said recesses is a first distance from a latching surface of a second of said recesses, wherein said fastener member comprises a pair of <sup>locking</sup> latching assemblies, and wherein a distance between a locking surface of a first of said <sup>locking</sup> latching assemblies is a distance equal to an integer multiple of said first distance from a locking surface of a second of said <sup>locking</sup> latching assemblies.

8. The system of Claim 6, wherein said spacer element further comprises a plurality of grooves formed in an exterior of said spacer element, and wherein at least a first of said grooves is formed in a plane corresponding to a plane of a latching surface of <sup>a</sup>one of said recesses.

9. The system of Claim 1, wherein said resilient portions comprise stem members, and wherein said fastener member further comprises a gap formed between said stem members.

10. The system of Claim 1, wherein said spacer member further comprises a plurality of depth control holes, wherein a depth control rod can be inserted in <sup>a</sup>one of said depth control holes to prevent <sup>the</sup>a fastener member from being inserted into said spacer member past a predetermined depth.

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11. A method for interconnecting objects, comprising:  
interconnecting a first snap fit fastener member to a first object;  
interconnecting said first snap fit fastener member to a spacer element;  
interconnecting a second snap fit fastener member to a second object;  
5 interconnecting said second snap fit fastener member to said spacer element,  
wherein said first and second objects are fastened to one another.
12. The method of Claim 11, further comprising:  
interconnecting said second snap fit fastener member to a second spacer element;  
interconnecting a third snap fit fastener member to a third object;  
interconnecting said third snap fit fastener member to said second spacer element,  
5 wherein said first, second, and third objects are fastened to one another.
13. The method of Claim 11, wherein said first and second objects comprise  
first and second circuit boards respectively.
14. The method of Claim 13, wherein said first circuit board is a first  
thickness, and wherein said second circuit board is a second thickness.
15. The method of Claim 11, wherein said spacer element comprises a  
plurality of recesses, wherein said fastener members comprise at least a first fastener  
assembly, wherein said first fastener member engages a recess at a first distance from a

first end of said spacer element.

16. The method of Claim 15, wherein said second member engages a recess at a second distance from a second end of said spacer element, and wherein said first and second objects are different thicknesses.

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17. A system for stacking circuit boards, comprising:

a first fastener member;

a first spacer element comprising an interior bore and a plurality of interior recesses;

5 a first circuit board, wherein a first locking assembly at a first end of said first fastener member is snap fit to said first circuit board and a second locking assembly at a second end of said first fastener member is snap fit to said spacer element, wherein said first circuit board is held between said first locking assembly of said first fastener member and a first end of said spacer element;

10 a second fastener member;

a second circuit board, wherein a first locking assembly at a first end of said second fastener member is snap fit to said first circuit board and a second locking assembly at a second end of said first fastener member is snap fit to said first spacer element, and wherein said first circuit board is in a stacked relationship with said second circuit board.

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18. The system of Claim 17, wherein said first circuit board is a first thickness, and wherein said second locking assembly at a second end of said first fastener member is engaged with a first recess of said first spacer element located a first distance from said first end of said first spacer element.

19. The system of Claim 18, wherein said second circuit board is a second thickness, and wherein said second locking assembly at a second end of said second fastener member is engaged with a second recess of said first spacer element located a second distance from said second end of said first spacer element.

20. The system of Claim 17, wherein said second circuit board is held between said first locking assembly of said second fastener member and a second end of said first spacer element

21. The system of Claim 17, further comprising:

a second spacer element, wherein said second locking assembly at a second end of said second fastener member is snap fit to said second spacer element, wherein said second circuit board is held between a second end of said first spacer element and a first end of said second spacer element;

a third fastener member;

a third circuit board, wherein a first locking assembly at a first end of said third fastener member is snap fit to said third circuit board and a second locking assembly at a second end of said third fastener member is snap fit to said second spacer element, wherein said third circuit board is held between said first locking assembly of said third fastener member and a second end of said second spacer element.